Assignment 5-2   The Summation of Even Integers

You are given two positive integers a and b, where $a \leq b$. In this problem you'll have to find out the sum of all the even integers in the range $[a, b]$.

Input

The input consists of t ($30 \leq t \leq 40$) test cases. The first line of the input contains only positive integer t. Then t test cases follow. Each test case consists of exactly one line with two positive integers a and b ($1 \leq a \leq b \leq 10000$), separated by a single space.

Output

For each test case, you are to output a single line containing the sum of the even integers in the range $[a, b]$.

Sample Input

4
3 19
5 18
2 17
4 20

Sample Output

88
84
72
108

Requirements

In your program, you are required to write a recursive function `int evenSum( int a, int b )` which returns the sum of the even integers in the range $[a, b]$, where $a \leq b$.